

# Flowchart Symbols (standard)

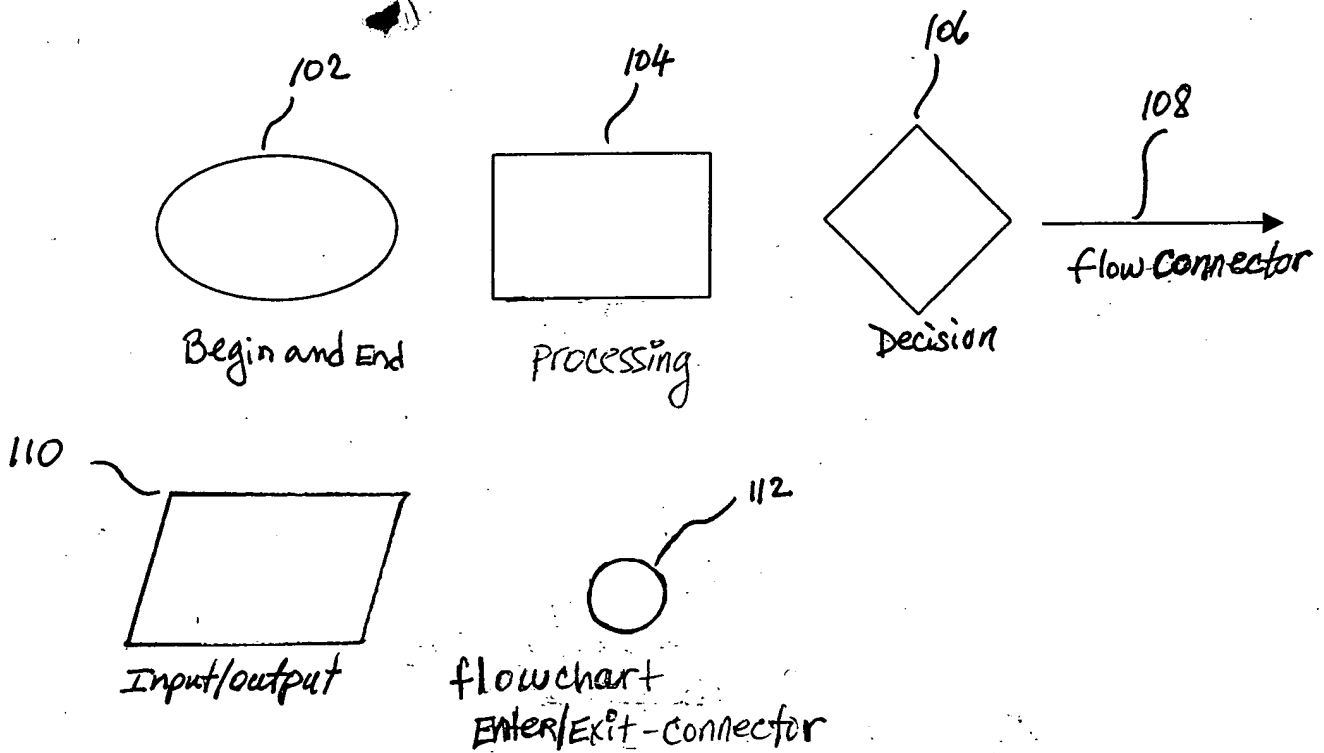


FIGURE 1 (Prior Art)

09756996-010801

Routing

Server: FOXRPT  
Name /ver /var: COLONY 1.4  
plan\_id: 381eeab4  
Last edit date: 05/23/2000  
Last edit time: 09:57:17

PLAN_ID	PPO_ID	PPO_NEXT_PATH_ID	NEXT_PPO_ID	PATH_DESC
381eeab4	01 BRD INGATE	OK	02 BENCH_MET_TST	BENCH METER TEST
381eeab4	02 BENCH_MET_TST	OK	03 STENCIL BOT	Stencil Bottomside
381eeab4	03 STENCIL BOT	OK	04 PASTE VISUAL	Solder Paste Visual Inspect
381eeab4	04 PASTE VISUAL	NOT OK	03 STENCIL BOT	Clean and Re-stencil Bottomside
381eeab4	04 PASTE VISUAL	OK	05 BOTTOMSIDE	Bottomside Placement and Reflow
381eeab4	05 BOTTOMSIDE	OK	06 AUTO_INSPECT	AUTO INSPECT BOTTOMSIDE
381eeab4	06_AUTO_INSPECT	OK	07_BENCH_MET_TST	BENCH METER TEST
381eeab4	07_BENCH_MET_TST	OK	08_STENCIL_TOP	STENCIL TOPSIDE
381eeab4	07_BENCH_MET_TST	BENCHRWK	29_BENCH_REWORK	BENCH REWORK METER TEST
381eeab4	08_STENCIL_TOP	OK	09_PASTE_MEASURE	Paste Measure Topside
381eeab4	09_PASTE_MEASURE	NOT_OK	08_STENCIL_TOP	Clean and Re-stencil Topside
381eeab4	09_PASTE_MEASURE	OK	10_TOPSIDE	Topside Place and Reflow
381eeab4	10_TOPSIDE	OK	11_AUTO_INSPECT	AUTO INSPECT TOPSIDE
381eeab4	11_AUTO_INSPECT	OK	11_BENCH_MET_TST	BENCH METER TEST
381eeab4	11_BENCH_MET_TST	OK	12_PIH_INSERT	Pin In Hole Insert and Inspect
381eeab4	11_BENCH_MET_TST	NOT_OK	39_BENCH_REWORK	Bench Rework -11_Bench_Met_Tst Fail
381eeab4	12_PIH_INSERT	OK	13_SOLDER_DIWASH	Solder Di-Wash
381eeab4	13_SOLDER_DIWASH	OK	14_XRAY	Xray and Xray Analysis
381eeab4	14_XRAY	OK	19_AUTO_INSPECT	AUTO INSPECT
381eeab4	14_XRAY	DEVICE	39_AIR_VAC	Air Vac Repair
381eeab4	14_XRAY	FOUNTAIN	39_SOLDER_FOUNT	Solder Fountain Repair
381eeab4	19_AUTO_INSPECT	OK	20_INSPECT	MANUAL INSPECT
381eeab4	19_AUTO_INSPECT	DEVICE	39_AIR_VAC	AIR VAC REPAIR
381eeab4	19_AUTO_INSPECT	FOUNTAIN	39_SOLDER_FOUNT	SOLDER FOUNTAIN REPAIR
381eeab4	20_INSPECT	RETRY	19_AUTO_INSPECT	AUTO RE INSPECT
381eeab4	20_INSPECT	OK	30_HEAT_SINK_ATT	Heat Sink Attach
381eeab4	20_INSPECT	DEVICE	39_AIR_VAC	AIR VAC
381eeab4	20_INSPECT	FOUNTAIN	39_SOLDER_FOUNT	SOLDER FOUNTAIN
381eeab4	20_INSPECT	TEST	40_INCIRCUIT_TST	INCIRCUIT TEST
381eeab4	29_BENCH_REWORK	NOT_OK	29_TIA	Thermal Image Meter Test Fail
381eeab4	30_HEAT_SINK_ATT	OK	31_RTV_ADD	RTV_ADD
381eeab4	31_RTV_ADD	OK	35_HDWARE_ASM_IN	HARDWARE ASSEMBLY AND INSPECT
381eeab4	35_HDWARE_ASM_IN	OK	40_INCIRCUIT_TST	Incircuit Test
381eeab4	39_AIR_VAC	OK	20_INSPECT	INSPECT
381eeab4	39_BENCH_REWORK	OK	11_BENCH_MET_TST	Bench Meter Re-test
381eeab4	39_DEBUG	DEVICE	39_AIR_VAC	AIR VAC
381eeab4	39_DEBUG	RETRY	39_BENCH_REWORK	BENCH REWORK
381eeab4	39_DEBUG	FOUNTAIN	39_SOLDER_FOUNT	SOLDER FOUNTAIN
381eeab4	39_DEBUG	TEST	40_INCIRCUIT_TST	INCIRCUIT TEST
381eeab4	39_SOLDER_FOUNT	FOUNTAIN	39_XRAY	XRAY (use for STI connectors and BER STIK)
381eeab4	39_XRAY	OK	20_INSPECT	Re-Inspect Board
381eeab4	39_XRAY	FOUNTAIN	39_SOLDER_FOUNT	Solder Fountain Repair
381eeab4	40_INCIRCUIT_TST	DEVICE	39_AIR_VAC	AIR VAC
381eeab4	40_INCIRCUIT_TST	NOT_OK	39_BENCH_REWORK	BENCH REWORK
381eeab4	40_INCIRCUIT_TST	TEST	39_DEBUG	DEBUG
381eeab4	40_INCIRCUIT_TST	FOUNTAIN	39_SOLDER_FOUNT	SOLDER FOUNTAIN
381eeab4	40_INCIRCUIT_TST	OK	41_FUNC_TEST	FUNCTIONAL TEST
381eeab4	41_FUNC_TEST	DEVICE	39_AIR_VAC	AIR VAC
381eeab4	41_FUNC_TEST	RETRY	39_BENCH_REWORK	BENCH REWORK
381eeab4	41_FUNC_TEST	TEST	39_DEBUG	DEBUG
381eeab4	41_FUNC_TEST	FOUNTAIN	39_SOLDER_FOUNT	SOLDER FOUNT
381eeab4	41_FUNC_TEST	OK	60_PACK	pack
381eeab4	60_PACK	OK	65_PC_STOCK	PC STOCK
381eeab4	65_PC_STOCK	END		

FIGURE 2

300

01\_BRD\_INGATE

02\_BENCH\_MET\_TST

03\_STENCIL\_BOT

{04\_PASTE\_VISUAL}

{05\_BOTTOMSIDE}

06\_AUTO\_INSPECT

{07\_BENCH\_MET\_TST}

-08\_STENCIL\_TOP

{09\_PASTE\_MEASURE}

-10\_TOPSIDE

11\_AUTO\_INSPECT

{11\_BENCH\_MET\_TST}

-12\_PIH\_INSERT

13\_SOLDER\_DIWASH

{14\_XRAY}

-19\_AUTO\_INSPECT}

-20\_INSPECT}

-30\_HEAT\_SINK\_ATT

31\_RTV\_ADD

35\_HWWARE\_ASM\_IN

\*40\_INCIRCUIT\_TST

-40\_INCIRCUIT\_TST}

-39\_DEBUG}

-\*40\_INCIRCUIT\_TST

-\*39\_SOLDER\_FOUNT

-\*39\_BENCH\_REWORK

-\*39\_AIR\_VAC

-41\_FUNC\_TEST}

-60\_PACK

65\_PC\_STOCK

-\*39\_SOLDER\_FOUNT

-\*39\_DEBUG

-\*39\_BENCH\_REWORK

\*-\*39\_AIR\_VAC

-\*39\_SOLDER\_FOUNT

-\*39\_BENCH\_REWORK

\*-\*39\_AIR\_VAC

-\*39\_SOLDER\_FOUNT

-\*39\_AIR\_VAC

-\*19\_AUTO\_INSPECT

-\*39\_SOLDER\_FOUNT

\*-\*39\_AIR\_VAC

-39\_AIR\_VAC

\*20\_INSPECT

\*-39\_SOLDER\_FOUNT

{39\_XRAY}

-\*39\_SOLDER\_FOUNT

\*-\*20\_INSPECT

\*-39\_BENCH\_REWORK

\*11\_BENCH\_MET\_TST

\*-\*08\_STENCIL\_TOP

\*-29\_BENCH\_REWORK

29\_TIA

\*-\*03\_STENCIL\_BOT

FIGURE 3

400

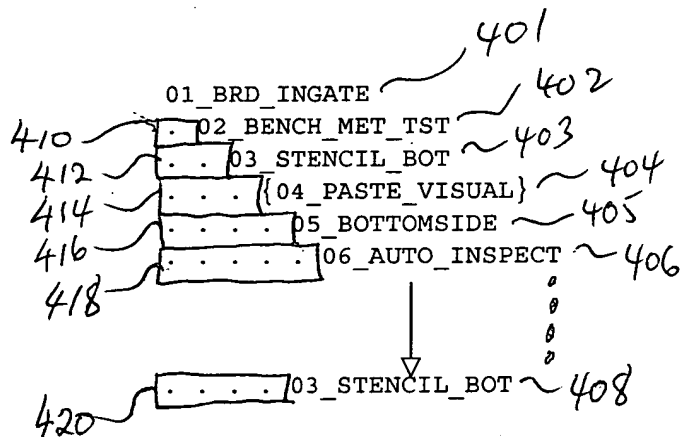


Figure 4

500

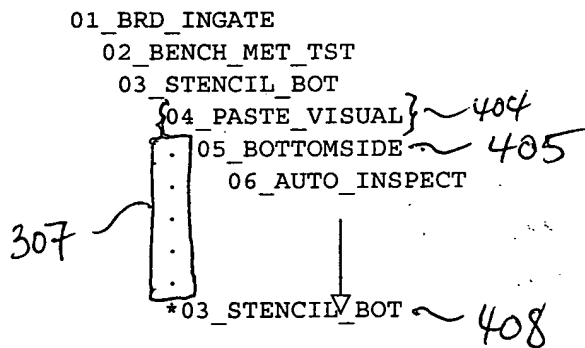


Figure 5

09756996 040804

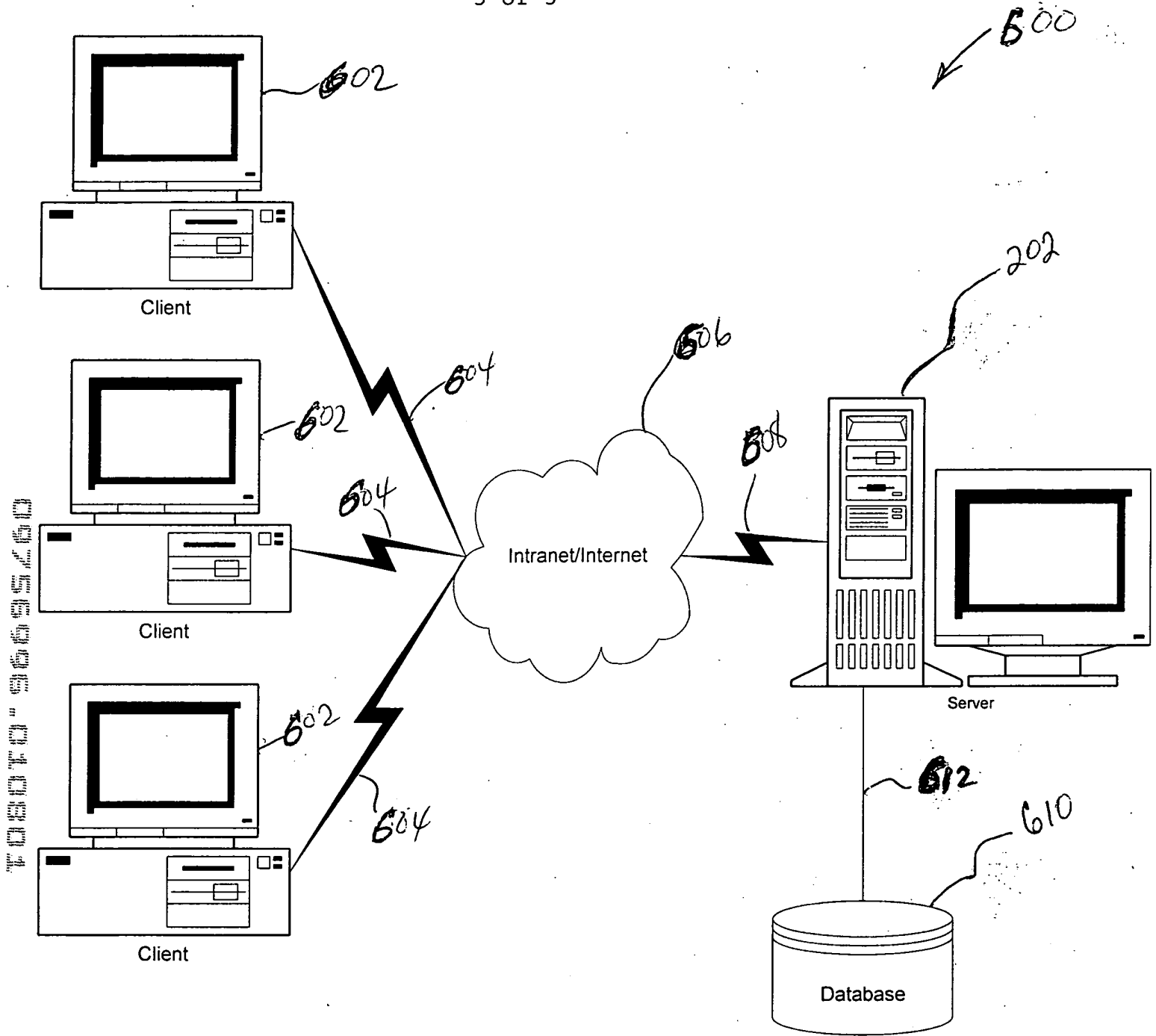


FIGURE 6